

10

NOTES AND STATISTICS

ON

VACCINATION IN BURMA

FOR THE YEAR 1909-10



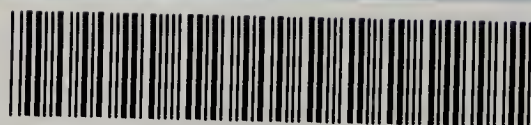
RANGOON

OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA

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NOTES AND STATISTICS
ON
VACCINATION IN BURMA
FOR THE YEAR 1909-10.

1. *Establishment*.—The number of vaccinators employed was 266, against Statement II. 259 in the previous year. The number of Native Superintendents of Vaccination remained as in the previous year at 48.

The 7 additional vaccinators were employed in the following districts :—

Rangoon Town District (Municipal) 1, Hanthawaddy District 3, Pegu District 2, Pakôkku District 1.

A Native Superintendent has been sanctioned for Katha District, and will be trained during the current year.

2. *Work performed during the year*.—There was an increase in the total of Statements I. & III. operations performed in towns and rural areas (excluding Dispensary Vaccination) of 10,144. There was a decrease of operations performed at Dispensaries amounting to 1,826. The total increase in the number of operations for the province was therefore 8,318 as compared with the returns of 1908-09.

3. *District Vaccination*.—Twenty-five districts show an increase on the work Statement I. of the previous year, and fifteen show a decrease.

Arakan Division.—In three out of the four districts of this division there was a falling off in the number of operations performed. In Akyab District the decrease was 2,699, in Kyaukpyu District 4,135. There was a creditable increase of 1,500 operations in Sandoway District. The decrease in the other districts is attributed by the Civil Surgeons to apathy on the part of the people and to the lack of the stimulus created in previous years by epidemics of small-pox.

Pegu Division.—There was a slight decrease amounting to 59 operations in Rangoon Municipality, and a decrease of 1,274 operations in Prome District, which was probably due to the prevalence of epidemic plague and cholera.

Hanthawaddy and Tharrawaddy Districts show a distinct improvement in the work done, with 1,200 and 1,813 operations respectively in excess of the previous year. Pegu shows a small increase of 477 only.

Irrawaddy Division.—All districts show an increase in the work done. The increase in Ma-ubin District is trifling, being only 33, while in Henzada it is 938, and in Myaungmya 761. The Civil Surgeons of these two districts deserve credit for improving the position of Vaccination among communities who have in recent years shown themselves to be very backward in receiving the operation.

Tenasserim Division.—Four districts, Amherst, Mergui, Toungoo and Thatôn show increased work, the increase in Thatôn being 3,087. There was a falling off in Tavoy District of 4,066 operations, and in Salween District of 128. The decrease in Tavoy is attributed by the Civil Surgeon to excessive zeal on the part of the vaccinators in previous years. This does not however satisfactorily explain the decrease of 978 in primary operations, since the birth-rate is maintained at a high level, and infant mortality is exceptionally low.

Mandalay Division.—Four districts, Mandalay, Bhamo, Katha and Ruby Mines show an increase. In Myitkyina District there was a falling off of 109 operations. The increases in Mandalay (3,292), and in Katha (3,751), show that the greater interest displayed by the Superintendents of Vaccination in these districts is bearing fruit.

Sagaing Division.—All four districts of this division show a decrease in the work done. In Sagaing District the deficit amounts to 2,014, and was confined to re-vaccinations; in Lower Chindwin District it was 2,478. The explanation

offered by the Civil Surgeons of these districts that the decrease was due to the wide-spread prevalence of plague and cholera during the year must be accepted as correct. The influence of the plague epidemic was felt in Upper Chindwin, where there was a serious decrease in the number of operations for vaccination caused by the belief entertained by the people in the truth of rumours emanating from the Lower Chindwin District, to the effect that Government were spreading plague by means of vaccination.

Magwe Division.—Thayetmyo District alone shows a decrease amounting to 1,388 cases. Pakôkku, on the other hand, shows an increase of 5,347 cases and Magwe of 2,183. The decrease in Thayetmyo is attributable to rumours arising in connection with the plague outbreak, and partly to the apathy of the people.

Meiktila Division.—Yamèthin District shows a decrease of 413 cases. Myingyan declares an increase of 861.

In the Northern Shan States there was an increase of 2,203 cases, and in the Chin Hills of 985. In the Southern Shan States there was a decrease of 2,857.

The serious instances of decrease in the number of operations performed in the districts of Akyab, Kyaukpyu, Tavoy, Prome, Thayetmyo, Sagaing and Lower Chindwin have all been enquired into, and except in the case of the three first-named districts the pleas advanced by the Civil Surgeons are more or less convincing. The large increases in the outturn of work in the Mandalay, Pakôkku, Magwe, Katha and Thatôn Districts, and in the Northern Shan States are very encouraging. Appreciable progress was also shown in the Henzada, Myaungmya, Hanhawaddy, Tharrawaddy, Sandoway and Myingyan Districts. However there is still very great room for improvement in all the districts of the Pegu Division excepting Prome, and in the Ma-ubin and Pyapôn Districts. In some of these districts the number of primary operations performed appears almost ludicrous when the outlay on Establishments is considered. The apathy of the people presents, undoubtedly a serious obstacle to progress in popularizing the operation.

Statement
III.

4. *Dispensary Vaccination.*—The total number of persons vaccinated was 12,261, against 14,087 in 1908-09. The falling off was mainly among persons over six years of age submitting to primary operation. The total decrease of successful cases was 981. There was a decrease in successful operations in infants of only ten and in children under six years of 91. In revaccinations there was an increase of 261 operations and of 558 successful results. The percentage successes were in primary operations 94·87 per cent. and in re-vaccinations 70·03 against 94·24 and 64·25 in the previous year, a definite improvement. The decrease in operations performed in dispensaries was 1,826, the major share in this decrease occurring in the Arakan Division (1,017). In the Pegu Division there was an increase in the number of operations of 1,766. In the Irrawaddy Division the decrease was 165, mainly at Bassein and Henzada, while Myaungmya and Ma-ubin show an increase. Tenasserim Division shows a decrease of 137. Mandalay Division an increase of 1 case. Sagaing Division an increase of 66 operations. Magwe Division a decrease of 731, affecting all districts. In Meiktila Division the decrease was 357, all in Meiktila District. In the Chin Hills there was a decrease of 1,289, and in the Shan States a small increase.

The decrease in dispensary vaccination is to a large extent apparent rather than real. Orders were issued to Civil Surgeons during the year to cease including in the return of dispensary vaccination those operations performed by the town vaccinators at the dispensaries when these institutions were used as vaccination stations, and to include such operations in Table I. The increase on the previous year in the operations shown in Table I is therefore to this extent exaggerated.

The decrease in dispensary operations in Thayetmyo District is attributed by the Civil Surgeon to lack of interest on the part of the medical subordinates in charge of those institutions.

Statement V.

5. *Verification.*—A marked improvement in the work of verification of operations is shown in the reports from the districts for the year under review. The total number of primary operations verified was 215,730 as compared with 178,661 in the previous year, an increase of 37,069. The whole of this increase

is to the credit of the Native Superintendents of Vaccination. The total primary operations verified by Native Superintendents was 179,114 which is an increase of nearly 40,000 on the work of each of the two preceding years, of 120,000 on that of 1906-07, and of over 80,000 on that of 1905-06.

The number of re-vaccinations verified was 35,430 of which Civil Surgeons verified 9,254 and Native Superintendents of Vaccination 26,176. The work of the Civil Surgeons showed a falling off of 2,057 verifications, while that of the Native Superintendents of Vaccination showed an increase of 4,934.

Second only in importance to the great increase of work performed by Native Superintendents of Vaccination during recent years is the outstanding fact of the continuous decrease of verification work by Civil Surgeons. The number of primary operations verified by this agency has fallen steadily since 1905-06 from 75,650 in that year to 38,589 in 1908-09, with a slight recovery in the year under review. No doubt there is not the same necessity for the Civil Surgeon to see so large a proportion of the operations as before the institution of Native Superintendents of Vaccination. But the fall from 17.72 per cent. verifications of total primary operations in 1905-06 to 10.42 in the year under review is too rapid to give confidence that supervision of the work of the Native Superintendents of Vaccination is everywhere thorough. An average of 10 per cent. implies that the ratio is much less in some districts, and the low rate of 0.87 in Tharrawaddy requires explanation as also do the ratios for Shwebo (2.02), Ruby Mines (0.20), Magwe (1.48).

6. *Infant Vaccination in Towns*—The proportion of infants vaccinated out of the number available for vaccination in Municipal Towns where the Vaccination Act is in force was 19,721 out of 25,232. In previous years the number vaccinated has always equalled, if it has not exceeded, the survivors among children born during the previous twelve months. Appendix B.

7. *Lymph Supply*.—1196.4 ounces of vaccine pulp, sufficient for 614,644 operations were issued during the year, against 179.2 ounces equivalent to 529,189 operations in the preceding year. The average cost of lymph per case provided for was 3.2 pies against 2.8 pies in the previous year. This increased cost was mainly due to increased expenditure on apparatus and other Europe stores much of which is non-recurring, and to loss of calves by rinderpest and foot-and-mouth disease, and increased expenditure on feeding a large stock of calves which could not be disposed of during the continuance of the epidemics. Only Glycerinated lymph was issued. The quality of the lymph has been extremely good, successful operations averaging 95.00 per cent. against 93.00 in the previous year, and 91.2 per cent. in 1907-08.

In Thayetmyo District the percentage of success in primary cases increased from 88.41 in the previous year to 93.34 in the year under review; and in Mogôk from 82.44 to 96.25.

It was found that capillary tubes sealed by heat gave 3.5 per cent. better results than tubes sealed with wax. An experiment was initiated in the early months of 1910 for testing the keeping powers of lymph placed in cold storage in Rangoon. The lymph will be tested after successive intervals of three months.

The severe outbreaks of foot-and-mouth disease and rinderpest which were especially prevalent in March, April, and May 1909, resulted in the death of 91 calves. Much difficulty was experienced in maintaining the strain of vaccine lymph owing to the prevalence of these epizootics and the difficulty experienced in obtaining healthy calves for operation. Great credit is due to the successive Superintendents for the successful efforts made to overcome these difficulties.

An improved system of water-supply to the Dépôt, and a larger class-room for the training of students are both urgently needed. Attention will be directed to the provision of these requirements during the current year.

8. *Training School*.—To avoid the inconvenience caused by students for training arriving at different dates, and the overlapping of periods of training, I have arranged that in future there will be two courses for the instruction of Native Superintendents of Vaccination commencing on the 1st January and the 1st July, and four courses for vaccinators commencing on the 1st of January, April, July, and October, respectively. A considerable strain has been thrown upon the

teaching staff of the Dépôt throughout the year by the advent of large numbers of vaccinators sent from Districts and Municipalities to undergo a short course of training followed by examination.

During the year 8 Native Superintendents of Vaccination and 38 Apprentice Vaccinators completed a full course of training at the Dépôt.

Captain J. Good, I.M.S., held charge as Superintendent of the Vaccine Dépôt and Training School from April 1st to November 26th, 1909. He devoted much time and attention to the training of students and several of the apprentices and Native Superintendents of Vaccination attained marked success in the examinations, which must be attributed to a great extent to his personal efforts towards their instruction. He was succeeded by Captain Walker, I.M.S., on 26th November, by Captain R. D. Saigol, I.M.S., on 26th February 1910, and by Captain H. A. Dougan, I.M.S., on 23rd March. All these officers have rendered excellent service in maintaining the high quality of the lymph prepared at the Dépôt, and in supervising the training of students.

Statement II. 9. *Expenditure*.—The total expenditure from Provincial, Municipal, Native States and Local Funds on the Vaccination Department during 1909-10 was Rs. 1,80,784-3-3 against Rs. 1,49,847-3-4 in the previous year. The increase amounted to Rs. 30,936-15-11. The increase was distributed among the several funds as follows:—Provincial, Rs. 21,622-7-6; Local, Rs. 7,958-5-6; Municipal, Rs. 707-1-6; Native States Rs. 649-1-5.

The increased expenditure was mainly due to numerical increase of the establishment, to increased cost of travelling allowances, and of contingencies. The increase on contingencies at the Meiktila Vaccine Dépôt has already been alluded to; it amounted to Rs. 3,940-13-1.

The actual increase under the headings of Establishment, Travelling Allowances and Contingencies, respectively, was Rs. 13,573-5-6, Rs. 10,764-7-11 and Rs. 6,599-2-6.

10. *Re-organization and Legislation*.—The Act for the prevention of inoculation passed in 1909, came into force in the Pegu and Hanthawaddy Districts on the 15th October of that year. A complete re-organization of the vaccination establishments of these two districts was effected during the year, and although it has been in force for too short a time for any marked effect to be produced yet there is evidence to show that energetic support of the vaccinators by the Civil and Medical authorities cannot fail to produce a large augmentation in the number of persons vaccinated annually.

11. During the year all Civil Surgeons were requested to map out their districts into circles with a view to systematising the tours of the vaccinators, and simplifying supervision, and considerable progress was made in carrying out this procedure.

12. *Vaccination in the Port of Rangoon*.—In the Port of Rangoon Section 9 of the Burma Vaccination Law Amendment Act came into force from the 24th of May 1909. The work of organizing a special vaccination staff and of carrying out the rules under this Act was performed by the Port Health Officer, Dr. F. A. Foy, in a most capable manner. Owing to insuperable difficulties associated with the provision of sufficient accommodation at the wharf connected with the vaccination station for the vast number of immigrant deck passengers who arrive at the Port of Rangoon every week, the application of the Act to the Port of Rangoon was restricted to passengers from Calcutta only, and the Act was brought into abeyance from the 15th October, in view of the increase of immigrants with the commencement of the busy shipping season. The number of deck passengers from incoming vessels inspected for the purposes of the Act was 32,968. Of these, 55.45 per cent. were found to be protected by vaccination, and 27.97 per cent. by previous small-pox, while the remaining 16.58 per cent. were unprotected. The total unprotected amounted to 5,466 persons of whom 5,017, or 15.22 of the total deck immigrants, were vaccinated by the Port Health Staff, 1.36 per cent. being considered unfit to undergo the operation, owing to old age or disease.

C. E. WILLIAMS, M.D., D.P.H., *Major, I.M.S.*,

Superintendent-General of Vaccination, Burma.

RANGOON, 18th May 1910.

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A.—VACCINATION

STATEMENT NO. I.—*Showing particulars of Vaccination in the*

No.	Circles and Districts.	Popula- tion of district according to census of 1901.	Average popula- tion per square mile.	Average number of vacci- nators employ- ed through- out the year.	Total number of persons vaccinated.			Average number of per- sons vacci- nated by each vacci- nator.	PRIMARY VACCINATION.				
									Total.	Successful.			Un- known.
1	2	3	4	5	6			7	8	9	10	11	12
ARAKAN DIVISION.													
1	Akyab	481,666	94	10	6,380	5,497	11,877	1,188	*11,511	1,883	5,858	10,453	74
2	Hill Tracts, Northern Arakan	20,682	4	2	788	377	1,115	553	1,085	4	152	1,038	1
3	Kyaukpyu	168,827	38	6	3,916	3,158	7,074	1,119	6,813	661	2,645	5,734	672
4	Sandoway	90,927	24	3	1,805	1,782	3,587	1,196	3,442	350	1,611	3,192	48
	Total	762,102	41	21	12,839	10,814	23,653	1,126	22,851	2,893	10,266	21,417	795
PEOU DIVISION.													
5	Rangoon	252,155	8,996	4	24,639	4,548	29,187	7,297	*6,514	3,633	1,401	5,609	857
6	Hanthawaddy	467,537	155	9	3,195	3,329	6,524	725	5,648	1,089	3,767	5,193	108
7	Pegu	339,572	79	10	4,042	3,876	7,913	792	7,250	1,236	3,824	6,849	237
8	Tharrawaddy	395,570	139	8	6,212	5,757	11,969	1,496	11,969	2,703	7,680	11,210	87
9	Prome	365,804	125	12	6,327	5,458	11,785	982	*10,857	3,381	5,850	10,257	303
	Total	1,820,638	139	43	41,415	22,968	67,383	1,567	42,238	12,092	22,522	39,138	1,592
IRRAWADDY DIVISION.													
10	Ma-ubin	283,347	173	4	1,589	1,627	3,216	804	*2,993	873	1,762	2,937	2
11	Pyapón	221,939	106	6	1,238	1,095	2,333	389	1,921	510	1,184	1,804	38
12	Bassein	391,427	95	10	8,386	6,755	15,141	1,511	*13,523	3,440	6,330	12,223	596
13	Henzada	484,558	169	15	7,808	7,521	15,329	1,022	14,845	4,292	8,236	13,800	517
14	Myaungmya	279,398	105	7	4,809	5,064	9,813	1,412	9,813	2,661	5,529	9,013	412
	Total	1,663,669	124	42	23,830	22,002	45,832	1,091	42,895	11,776	23,041	39,777	1,565
TENASSERIM DIVISION.													
15	Amherst	300,173	43	9	14,037	8,413	22,480	2,493	21,445	3,272	7,212	20,101	519
16	Tavoy	109,979	21	5	3,754	3,401	7,155	1,431	*7,580	2,491	2,412	5,831	586
17	Mergui	88,744	9	4	3,431	3,108	6,539	1,647	*6,464	954	2,371	6,011	44
18	Toungoo	279,315	45	7	4,619	3,553	8,252	1,179	6,637	1,883	2,661	6,075	274
19	Thaton	343,510	63	6	5,806	6,163	11,969	1,935	11,851	2,438	6,025	10,763	...
20	Salween	37,837	14	1	769	427	1,196	1,196	684	4	96	538	...
	Total	1,159,558	32	32	32,536	25,105	57,641	1,801	54,711	11,042	20,780	49,369	1,423
MANDALAY DIVISION.													
21	Mandalay	366,507	173	10	8,856	8,064	16,920	1,692	*11,968	5,990	4,544	11,433	102
22	Bhamo	79,515	19	4	2,106	1,924	4,030	1,018	*3,850	1,206	1,550	3,497	175
23	Katha	176,223	25	4	3,795	3,842	7,637	1,919	7,637	737	3,982	7,393	6
24	Ruby Mines	87,694	16	4	2,135	1,984	4,119	1,030	*4,068	372	1,428	2,667	1,297
25	Myitkyina	67,399	6	2	623	515	1,174	587	1,174	181	703	1,096	...
	Total	777,338	26	24	17,521	16,359	33,880	1,412	23,697	8,436	12,212	26,686	1,580
SAGAING DIVISION.													
26	Shwebo	286,891	51	8	5,781	5,637	11,478	1,435	11,071	2,496	7,343	10,162	338
27	Sagaing	232,653	152	6	9,633	9,739	18,802	3,154	*15,747	7,320	7,695	15,015	327
28	Lower Chindwin	276,383	79	6	6,149	6,454	12,403	2,667	11,211	5,193	4,477	11,131	...
29	Upper Chindwin	151,551	8	6	3,185	3,092	6,277	1,046	*6,433	921	4,135	6,079	25
	Total	1,000,483	33	26	24,138	24,772	48,930	1,883	41,462	15,930	23,653	42,387	690
MAGWE DIVISION.													
30	Thayetmyo	239,706	50	8	6,209	6,374	12,583	1,573	11,140	1,819	4,852	9,647	805
31	Pakōkku	356,489	57	10	10,591	10,109	20,700	2,070	20,658	3,378	6,570	19,509	588
32	Minbu	233,377	71	7	4,475	4,274	8,749	1,250	8,578	2,029	5,024	8,152	53
33	Magwe	246,703	85	8	7,061	7,721	14,781	1,843	14,434	4,373	9,202	13,739	99
	Total	1,076,280	63	33	23,335	23,478	56,813	1,722	54,810	11,599	25,648	51,047	1,545
MEIKTILA DIVISION.													
34	Meiktila	252,305	116	6	3,393	3,147	6,546	1,091	6,530	972	5,601	6,269	185
35	Yamethin	243,197	57	7	4,745	4,585	9,330	1,333	9,179	2,835	5,635	8,470	357
36	Kyaukse	141,253	111	3	2,285	2,345	4,630	1,543	4,520	2,860	1,409	4,269	163
37	Myingyan	356,052	114	7	7,134	7,259	14,423	2,660	14,280	4,101	7,224	12,962	501
	Total	992,807	91	23	17,563	17,366	34,929	1,519	31,509	10,763	19,269	31,970	1,216
SHAN STATES.													
38	Northern Shan States	321,090	22	8	2,367	1,868	4,235	523	4,010	65	1,639	2,961	923
39	Southern Shan States	816,354	19	11	8,000	7,727	15,727	1,430	*15,541	1,177	6,773	13,458	1,061
	Total	1,137,444	20	19	10,367	9,595	19,932	1,051	19,551	1,242	8,462	16,419	1,987
CHIN HILLS.													
40	Chin Hills	87,189	11	3	2,270	1,147	3,417	1,139	3,417	42	424	2,591	909
	GRAND TOTAL	10,477,508	45	266	213,864	178,606	392,470	1,475	*348,141	85,875	166,277	319,001	13,292

NOTE.—This statement does not include the figures for Dispensary
NOTE.—Area and population of the
* Secondary operations

DEPARTMENT.

Province of Burma during the year 1909-10 (Paragraphs 2 and 3).

RE-VACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		Persons successfully vaccinated per 1,000 of population.	PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.		AVERAGE ANNUAL NUMBER OF PERSONS SUCCESSFULLY VACCINATED DURING PREVIOUS FIVE YEARS.		AVERAGE ANNUAL NUMBER OF DEATHS FROM SMALL-POX DURING PREVIOUS FIVE YEARS.		No.
Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	No.	Ratio per 1,000.	No.	Ratio per 1,000.	
13	14	15	16	17	18	19	20	21	22	23	24	25
475	342	17	91.40	74.67	22.41	.64	3.53	12,524	26.00	163	.35	1
30	24	...	95.76	80.00	51.35	.09	...	928	44.88	...	...	2
*350	218	37	93.37	69.65	35.26	9.86	10.57	6,077	35.99	134	.79	3
145	114	25	94.05	95.00	36.36	1.39	17.24	2,064	22.70	6	.07	4
1,000	698	79	92.57	75.79	27.71	3.48	7.90	21,592	28.33	308	.42	
22,678	8,416	7,655	99.15	56.02	55.62	13.16	33.76	11,402	57.12	365	1.45	5
876	445	96	93.74	57.05	12.06	1.91	10.96	3,887	8.31	515	1.10	6
668	539	55	97.66	87.93	21.76	3.27	8.23	9,234	27.19	160	.47	7
...	...	...	94.51	...	28.39	.73	...	11,810	23.86	327	.83	8
951	333	118	97.19	45.93	20.09	2.79	12.41	13,354	36.50	185	.51	9
25,173	9,783	7,924	96.29	56.72	26.37	3.77	31.48	52,688	23.94	1,552	.85	
224	60	...	98.19	26.79	10.53	.07	...	3,250	11.47	208	.73	10
412	271	24	95.80	69.85	9.22	1.98	5.33	2,726	12.12	192	.86	11
*1,910	1,023	315	96.04	64.45	33.85	4.47	16.49	15,081	38.58	231	.59	12
434	211	81	96.31	52.36	25.92	3.43	16.74	26,193	54.06	281	.58	13
...	...	...	95.87	...	32.26	4.20	...	7,677	27.48	269	.36	14
3,030	1,570	420	96.24	60.15	24.25	3.65	13.86	54,927	33.02	1,181	.71	
1,035	561	89	96.06	59.30	68.83	2.42	8.60	19,261	64.17	112	.37	15
886	338	117	88.37	43.95	53.09	7.73	13.21	7,671	69.75	4	.04	16
143	72	17	93.63	57.14	68.66	.68	11.89	5,578	62.35	7	.08	17
1,565	676	287	94.73	52.90	24.17	4.10	18.34	6,907	24.73	95	.36	18
118	63	...	90.82	53.39	31.52	...	...	6,801	19.80	140	.41	19
512	240	...	85.96	46.37	21.88	...	...	799	21.13	...	...	20
4,259	1,950	510	92.65	52.01	44.20	2.60	11.97	47,017	40.55	359	.33	
*5,157	3,204	166	96.35	64.20	39.94	.85	3.22	12,041	32.85	87	.25	21
182	114	21	95.16	70.81	45.41	4.55	11.54	3,414	42.93	...	...	22
...	...	...	96.83	...	41.95	.03	...	3,098	17.58	...	...	23
239	165	19	96.25	75.00	32.29	31.88	7.95	2,465	23.11	...	...	24
...	...	...	93.36	...	16.26	...	...	1,113	16.51	...	...	25
5,578	3,433	206	96.20	64.84	38.04	5.51	3.69	22,131	28.47	...	...	
407	247	44	94.68	68.04	36.23	3.05	10.81	10,922	33.07	33	.12	26
3,058	2,524	130	97.37	86.20	62.05	2.08	4.25	15,950	56.43	48	.17	27
1,192	918	...	99.29	77.01	43.60	...	...	13,474	48.75	22	.08	28
1	...	...	94.87	...	39.33	.39	...	8,230	53.25	...	...	29
4,653	3,689	174	96.84	82.27	46.05	1.55	3.74	48,577	48.55	104	.12	
*2,192	1,138	116	93.34	54.32	44.99	7.23	5.29	12,064	50.33	24	.10	30
42	20	...	97.20	47.62	54.78	2.85	...	9,423	26.43	234	.78	31
171	143	7	95.62	87.20	35.54	.62	4.09	6,554	23.08	2	.01	32
347	232	9	95.84	68.64	56.63	.69	2.59	11,432	43.54	34	.14	33
2,752	1,533	132	95.84	58.51	48.85	2.82	4.80	39,523	36.72	294	.30	
16	8	7	98.80	88.89	21.88	2.83	43.75	8,932	33.02	32	.13	34
151	116	20	96.01	88.55	35.30	3.89	13.25	9,552	39.23	68	.24	35
110	82	13	97.93	84.54	30.80	3.61	11.82	4,542	32.16	1	...	36
143	70	13	94.07	56.00	36.60	3.51	12.59	11,349	31.88	162	.46	37
420	276	53	96.00	76.24	32.48	3.49	13.81	33,776	31.02	253	.26	
225	39	167	95.92	67.24	9.34	23.02	74.22	3,534	11.01	...	...	38
202	144	11	92.96	75.39	16.66	6.85	5.45	10,089	12.36	...	...	39
427	183	178	93.48	73.49	14.60	10.16	41.69	13,623	11.93	...	...	
*6	1	5	95.33	100.00	27.43	26.60	83.33	1,581	18.13	...	...	40
*47,303	23,166	9,656	95.27	61.58	32.66	3.82	20.48	335,424	32.01	...	...	

Vaccination which are shown separately in Statement III. Pakokku Chin Hills have been excluded. included.

A.—VACCINATION

STATEMENT NO. II.—*Showing the cost of the Department in the*

No.	Circles and Districts.	EXPENDITURE.										Total pay of establishment.
		European super- vising officers.	Pay.	Native super- vising officers.	Pay.	Vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	
1	2	3	4	5	6	7	8	9	10	11	12	13
	ARAKAN DIVISION.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.
1	Akyab ...	2	1,009 7 11	10	2,887 13 4	...	...	...	...	...	...	3,897 5 3
2	Hill Tracts, Northern Arakan...	...	...	...	676 12 0	...	...	...	...	...	...	676 12 0
3	Kyaukpau ...	1	755 8 1	6	1,561 14 10	...	...	...	...	...	...	2,318 6 11
4	Sandoway ...	1	600 0 0	3	793 7 4	...	...	...	...	...	...	1,398 7 4
	Total	4	2,366 0 0	21	5,024 15 6	...	...	...	...	...	...	8,290 15 6
	PEGU DIVISION.											
5	Rangoon...	...	...	4	4,788 14 4	...	1,119 7 1	4	1,120 11 4	...	...	7,020 0 9
6	Hanthawaddy ...	3	1,300 0 0	9	2,466 4 7	...	...	...	...	...	...	3,766 4 7
7	Pegu ...	3	1,994 3 1	10	2,493 10 3	...	...	...	...	...	...	4,492 13 4
8	Tharrawaddy ...	1	600 0 0	8	2,519 3 5	...	...	...	...	...	...	3,149 3 5
9	Prome ...	1	600 0 0	12	3,411 11 10	...	...	...	...	...	...	4,011 11 10
	Total	8	4,494 3 1	43	15,654 12 5	...	1,119 7 1	4	1,120 11 4	...	...	22,380 1 11
	IRRAWADDY DIVISION.											
10	Ma-ubin ...	1	600 0 0	4	1,021 0 0	...	...	...	...	...	...	1,621 0 0
11	Pyapön ...	1	600 0 0	6	1,915 9 8	...	...	...	...	...	...	2,515 9 8
12	Bassein ...	2	840 0 0	10	2,694 4 0	...	...	...	...	...	...	3,534 4 0
13	Henzada ...	1	600 0 0	13	4,040 14 0	...	...	...	...	...	...	4,640 14 0
14	Maungmya ...	1	600 0 0	7	1,678 1 4	...	...	...	...	...	...	2,278 1 4
	Total	6	3,240 0 0	42	11,349 13 0	...	...	...	...	...	...	14,589 13 0
	TENASSERIM DIVISION.											
15	Amherst ...	2	1,200 0 0	9	2,562 0 0	1	120 0 0	...	...	...	...	3,882 0 0
16	Tavoy ...	1	600 0 0	5	1,282 0 0	...	...	...	...	...	...	1,882 0 0
17	Mergui ...	1	600 0 0	4	970 0 0	...	...	...	...	...	...	1,570 0 0
18	Yongoo ...	1	600 0 0	7	1,622 0 0	...	...	...	...	...	...	2,222 0 0
19	Thatön ...	1	563 7 9	6	1,933 0 0	...	...	...	...	...	...	2,493 7 9
20	Salween ...	...	...	1	300 0 0	...	...	...	...	...	...	300 0 0
	Total	6	3,560 7 9	32	8,669 0 0	1	120 0 0	...	...	...	...	12,349 7 9
	MANDALAY DIVISION.											
21	Mandalay ...	1	613 5 0	10	3,632 3 0	...	...	...	...	...	...	4,245 8 0
22	Bhamo ...	...	...	4	1,280 13 8	...	...	...	...	...	...	1,280 13 8
23	Katha ...	...	...	4	912 9 3	...	...	...	...	...	...	912 9 3
24	Ruby Mines ...	1	780 0 0	4	1,746 0 0	...	...	...	...	...	...	2,526 0 0
25	Myitkyina ...	...	...	2	707 0 0	...	...	...	...	...	...	707 0 0
	Total	2	1,393 5 0	24	8,278 9 11	...	...	...	...	...	...	9,671 14 11
	SAGAING DIVISION.											
26	Shwebo ...	1	550 0 0	8	2,021 0 0	...	...	...	...	...	...	2,571 0 0
27	Sagaing ...	1	550 0 0	6	1,813 2 5	...	...	...	...	...	...	2,363 2 5
28	Lower Chindwin ...	1	550 0 0	6	1,771 14 6	...	...	...	...	...	...	2,321 14 6
29	Upper Chindwin ...	1	...	6	2,170 2 0	...	...	...	...	...	...	2,170 2 0
	Total	4	1,650 0 0	2	7,776 2 11	...	...	...	...	...	...	9,426 2 11
	MAGWE DIVISION.											
30	Thayetmyo ...	1	600 0 0	8	2,347 5 3	...	...	...	...	...	...	2,947 5 3
31	Pakkōku ...	1	631 15 10	10	2,334 5 10	...	...	...	...	...	...	2,966 5 8
32	Minbu ...	1	...	7	1,959 0 0	...	...	...	...	...	...	1,959 0 0
33	Magwe ...	2	449 0 5	8	1,709 0 0	...	...	...	...	...	...	2,158 0 5
	Total	5	1,681 0 3	33	8,349 11 1	...	...	...	...	...	...	10,080 11 4
	MEIKTILA DIVISION.											
34	Meiktila Vaccine Depot ...	1	405 5 9	1	1,174 13 5	†	1,018 1 9	2	1,470 0 0	8	1,297 4 9	5,165 9 8
35	Meiktila ...	1	...	6	1,552 0 0	...	...	...	...	...	...	3,668 6 2
36	Yamethin ...	2	720 0 0	7	1,869 12 0	...	...	...	...	...	...	2,589 12 0
37	Kyaukse ...	1	100 0 0	3	972 0 0	...	...	...	...	...	...	1,072 0 0
38	Myingyan ...	1	600 0 0	7	1,972 11 8	...	...	...	...	...	...	2,572 11 8
	Total	1	405 5 9	6	4,111 3 7	23	7,384 9 5	2	1,470 0 0	8	1,297 4 9	14,668 7 6
	SHAN STATES.											
39	Northern Shan States ...	2	1,100 0 0	8	1,920 3 9	...	...	...	...	...	...	3,129 3 9
40	Southern Shan States ...	5	3,447 11 1	11	6,019 10 0	...	...	...	...	...	...	9,467 5 1
	Total	7	4,547 11 1	19	7,949 2 9	...	...	...	...	...	...	12,596 12 10
41	Chin Hills ...	...	...	3	1,016 0 0	...	...	...	...	...	...	1,016 0 0
	GRAND TOTAL	1	405 5 9	48	27,143 14 9	236	82,352 13 0	3	2,700 7 1	12	2,418 0 1	1,15,020 8 8

*This amount includes the

† Apprentice

‡ This amount includes pay of Native Superintendents of Vaccination of certain other

Province of Burma during the year 1909-10 (Paragraphs 1 and 9)

cost of Port Health Vaccination.
Vaccinators.
 districts for the period of their training at Meiktila.

B.—DISPENSARY

STATEMENT NO. III.—*Showing Dispensary Vaccination in the*

No.	Districts.	Number of dispensaries in each district to which a vacci- nator is at- tached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vac- cinated by each vaccinator.	PRIMARY
						Total.
1	2	3	4	5	6	7
ARAKAN DIVISION.						
1	Akyab ... ..	.....	.....	..... 3	.....	..... 2
2	Hill Tracts, Northern Arakan ... ..	.....	.....	656	.....	520
3	Kyaukpyu ... ..	.....	.....	5	.....	5
4	Sandoway ... ..	.....	.....		.....	
	Total ... ..	.....	.....	664	.....	527
PEGU DIVISION.						
5	Rangoon ... ..	.....	.....	3,053	.....	1,062
6	Hanthawaddy ... ..	.....	.....	624	.....	493
7	Pegu ... ..	.....	.....	395	.....	389
8	Tharrawaddy ... ..	.....	.....		.....	
9	Prome ... ..	.....	.....		.....	
	Total ... ..	.....	.....	4,072	.....	1,944
IRRAWADDY DIVISION.						
10	Ma-ubin ... ..	.....	.....	848	.....	98
11	Pyapön ... ..	.....	.....	142	.....	9
12	Bassein ... ..	.....	.....	1,194	.....	273
13	Henzada ... ..	.....	.....	1,171	.....	142
14	Myaungmya ... ..	.....	.....		.....	
	Total ... ..	.....	.....	3,355	.....	522
TENASSERIM DIVISION.						
15	Amherst ... ..	.....	.....	68	.....	50
16	Tavoy ... ..	.....	.....	5	.....	4
17	Mergui ... ..	.....	.....	15	.....	3
18	Toungoo ... ..	.....	.....	32	.....	30
19	Thatön ... ..	.....	.....	88	.....	57
20	Salween ... ..	.....	.....		.....	
	Total ... ..	.....	.....	208	.....	144
MANDALAY DIVISION.						
21	Mandalay ... ..	.....	.....	803	.....	216
22	Bhamo ... ..	.....	.....	344	.....	141
23	Katha ... ..	.....	.....	80	.....	63
24	Ruby Mines ... ..	.....	.....	111	.....	109
25	Myitkyina ... ..	.....	.....		.....	
	Total ... ..	.....	.....	1,343	.....	534
SAGAIÑO DIVISION.						
26	Shwebo ... ..	.....	.....	107	.....	97
27	Sagaing ... ..	.....	.....	78	.....	78
28	Lower Chindwin ... ..	.....	.....	226	.....	204
29	Upper Chindwin ... ..	.....	.....		.....	
	Total ... ..	.....	.....	411	.....	379
MAGWE DIVISION.						
30	Thayetmyo ... ..	.....	.....	810	.....	224
31	Pakökku ... ..	.....	.....	90	.....	90
32	Minbu ... ..	.....	.....		.....	
33	Magwe ... ..	.....	.....		.....	
	Total ... ..	.....	.....	900	.....	314
MEIKTILA DIVISION.						
34	Meiktila ... ..	.....	.....	123	.....	73
35	Yaméchin ... ..	.....	.....	63	.....	63
36	Kyauksè ... ..	.....	.....		.....	
37	Myingyan ... ..	.....	.....		.....	
	Total ... ..	.....	.....	186	.....	136
SHAN STATES.						
38	Northern Shan States ... ..	.....	.....	266	.....	130
39	Southern Shan States ... ..	.....	.....	30	.....	28
	Total ... ..	.....	.....	296	.....	158
40	Chin Hills ... ..	.....	.....	826	.....	817
	GRAND TOTAL ... ..	.....	.....	12,261	.....	5,475

VACCINATION.

Province of Burma for the year 1909-10 (Paragraphs 2 and 4).

VACCINATION.			RE-VACCINATION.				PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.		No.
Successful.			Unknown.	Total.	Successful.	Unknown.	Primary.	Re- vaccina- tion.	Primary.	Re- vaccina- tion.	
Under one year.	One and under six years.	Total of all ages.									
8	9	10	11	12	13	14	15	16	17	18	19
... 1 35 ...	... 1 170 ...	... 2 477 5	... 32 ...	... 1 136 ...	... 99 ...	... 23 ...	100·00 97·75 100·00	... 87·61 ...	... 6·15 ...	... 16·91 ...	1 2 3 4
36	171	484	32	137	99	23	97·78	86·84	6·07	16·79	
... 109 74 97 ...	... 630 255 246 ...	... 992 487 366 ...	... 42 2 4 ...	... 1,991 131 6 ...	... 1,711 64 4 ...	... 2 18	97·25 99·19 95·06 ...	86·02 56·64 66·67 ...	3·95 ·41 1·03 ...	... 10 13·74	5 6 7 8 9
370	1,131	1,845	43	2,128	1,779	20	97·31	84·54	2·47	·94	
... ... 5 18 20	2 ... 4 8 30	85 ... 9 108 123	13 ... 119 12	750 ... 133 921 1,029	590 ... 62 422 450	11 ... 33 57 80	100·00 ... 70·13 94·62	79·84 ... 48·84 47·42	13·27 ... 43·59 8·45	1·47 ... 24·81 6·19 7·77	10 11 12 13 14
43	44	325	144	2,833	1,524	181	85·98	57·47	27·59	6·29	
8 ... 1 2 13 ...	27 ... 1 ... 12 16	47 ... 4 3 30 49	3	18 ... 1 12 2 31	6 ... 6 2 10	12 ... 2	100·00 ... 100·00 100·00 85·96	100·00 ... 60·00 100·00 32·26	6·00	66·67 16·67	15 16 17 18 19 20
24	56	133	3	64	24	14	94·33	43·00	2·08	21·87	
46 16	74 ... 11 35 43	178 ... 139 55 106	34 ... 1 12	592 ... 203 12 2	349 ... 153 8 1	108 ... 12 2 ...	97·80 ... 99·29 98·21 97·25	72·11 ... 80·10 80·00 50·00	15·74 ... ·71 17·65 ...	18·24 ... 5·91 16·67	21 22 23 24 25
62	163	478	47	809	511	122	98·15	74·38	8·80	15·08	
23 ... 37 33	51 37 99	80 ... 76 189	5 13	10 22	9 15	 1	86·96 ... 97·44 98·95	90·00 71·43	5·15 6·37	 4·55	26 27 28 29
93	187	345	18	32	21	1	95·57	77·42	4·75	3·12	
45 5	67 53	215 88	1	586	431	2	96·41 97·78	73·80	·45	·34	30 31 32 33
50	120	303	1	586	431	2	96·81	73·80	·32	·34	
12 44	2 19	71 63	2	50	45	4	100·00 100·00	97·83	2·74	8·00	34 35 36 37
56	21	134	2	50	45	4	100·00	97·83	1·47	8·00	
8 1	29 12	65 25	35 1	136 2	52 2	4 ...	68·42 92·59	39·39 100·00	26·92 3·57	2·94 ...	38 39
9	41	90	36	138	54	4	73·77	40·30	22·78	2·90	
16	47	167	605	9	1	1	78·77	12·50	74·05	11·11	40
764	1,981	4,304	936	6,786	4,492	372	94·82	70·03	17·10	5·48	

COMPARATIVE STATEMENT NO. IV.—*Showing the number of persons primarily vaccinated
Burma in each of the under*

PERSONS PRIMARILY										
Establishments.	Total number.	Number success- fully vac- cinated.	Total number.	Number success- fully vac- cinated.	Total number.	Number success- fully vac- cinated.	Total number.	Number success- fully vac- cinated.	Total number.	Number success- fully vac- cinated.
	1900-01.		1901-02.		1902-03.		1903-04.		1904-05.	
	1	2	3	4	5	6				
Government	106,629	95,392	91,590	83,082	120,384	101,166	135,394	109,016	138,435	109,201
Municipal	62,338	58,008	52,227	46,695	55,352	47,049	53,775	44,879	59,410	46,168
Local Funds	215,111	198,789	181,107	166,183	105,218	149,585	179,917	160,516	166,339	141,626
Native States	1,574	1,420	1,822	1,553	7,053	5,451	6,712	5,024	6,983	4,989
Dispensary	6,653	4,229	3,971	3,033	6,622	5,038	8,924	6,915	9,516	7,152
ARMY.										
Europeans	23	10	20	9	25	11	...	...	25	14
Natives	391	207	114	67	359	283	380	222	379	215
Total	392,719	358,055	333,701	300,722	355,013	308,583	385,102	327,172	381,090	309,365

STATEMENT NO. V.—*Showing particulars of Vaccination verified*

No.	Districts.	TOTAL NUMBER OF PERSONS VACCINATED.		TOTAL NUMBER INSPECTED			
				By Deputy Sanitary Com- missioner or Civil Surgeons.		By Native Superintendents or other Inspecting Officers	
		Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
2		3	4	5	6	7	8
1	Akyab	11,402	475	919	375	4,593	82
2	Hill Tracts, Northern Arakan	1,087	31	.....	.....	2	1
3	Kyaukpyu	7,333	397	899	265	3,790	331
4	Sandoway	3,447	145	221	.....	410	49
5	Rangoon	6,509	22,678	196	775	4,856	13,085
6	Hanthawaddy	6,710	2,867	1,411	261	5,904	1,136
7	Pegu	7,743	799	1,075	190	5,670	431
8	Tharrawaddy	12,258	6	107	.....	7,155	6
9	Prome	10,834	951	1,051	167	5,763	581
10	Ma-ubin	3,090	974	474	651	3,090	966
11	Pyapôn	1,921	412	1,037	42	1,696	308
12	Bassein	13,240	2,043	551	1,193	5,178	1,655
13	Henzada	15,118	1,405	1,609	879	5,794	312
14	Myaungmya	9,955	1,029	280	897	5,893	163
15	Amherst	21,495	1,053	492	52	15,083	819
16	Tavoy	6,269	886	1,059	417	5,163	886
17	Mergui	6,450	144	336	28	3,610	90
18	Toungoo	6,690	1,577	499	318	5,753	310
19	Thatôn	11,881	120	4,014	.....	5,187	.....
20	Salween	741	543	104	27	16	26
21	Mandalay	11,997	5,731	2,619	837	7,800	1,252
22	Bhamo	3,848	182	939	40	116	3
23	Katha	7,778	203	1,033	194	195	172
24	Ruby Mines	3,943	251	8	.....	3,123	169
25	Myitkyina	1,283	2	150	.....	201	2
26	Shwebo	11,168	417	26	106	5,738	15
27	Sagaing	15,744	3,058	1,583	161	10,596	1,718
28	Lower Chindwin	11,239	1,192	1,721	423	6,554	341
29	Upper Chindwin	6,480	23	599	...	193	21
30	Thayetmyo	11,364	2,029	1,564	587	7,555	718
31	Pakôkku	20,748	42	1,955	13	6,602	19
32	Minbu	8,578	171	1,181	.....	700	55
33	Magwe	14,434	347	213	23	1,404	85
34	Meiktila	6,003	66	721	41	3,854	16
35	Yaméthin	9,242	151	2,383	137	6,452	14
36	Kvaüksè	4,520	110	739	...	233	.....
37	Myingyan	14,280	143	754	8	9,071	114
38	Northern Shan States	4,140	361	102	147	3,132	247
39	Southern Shan States	15,553	204	1,473	...	10,916	48
40	Chin Hills	4,228	15	219	.....	.....	.....
GRAND TOTAL		351,498	53,233	36,616	9,254	179,114	26,196

and the number of those persons who were successfully vaccinated in the Province of mentioned official years.

VACCINATED.

Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Establishments.
1905-06.		1906-07.		1907-08.		1908-09.		1909-10.		
7		8		9		10		11		
162,014	144,074	126,106	111,283	148,497	133,223	147,185	134,451	178,234	177,619	Government.
64,883	52,398	59,352	48,431	48,060	41,811	43,072	38,908	45,573	44,057	Municipal.
181,999	160,428	167,418	148,271	133,772	119,609	133,167	123,307	112,135	90,744	Local Funds.
8,137	6,933	6,833	5,739	5,203	4,330	6,991	5,262	10,081	6,581	Native States.
9,812	7,272	10,690	7,180	10,443	7,457	7,562	5,287	5,475	4,304	Dispensary.
										ARMY.
66	33	24	14	59	36	37	35	68	56	Europeans.
304	183	281	143	408	279	455	396	306	269	Natives.
427,305	371,376	370,704	321,061	351,442	306,751	343,439	306,646	351,872	323,630	Total.

by Inspecting Officers during the year 1909-10 (Paragraph 5).

PERCENTAGE OF INSPECTIONS TO TOTAL NUMBER VACCINATED.				PERCENTAGE OF CASES FOUND SUCCESSFUL OF TOTAL NUMBER INSPECTED.				PERCENTAGE OF SUCCESS REPORTED BY VACCINATORS.		No.
By Deputy Sanitary Commissioner or Civil Surgeons.		By Native Superin- tendents or other Inspecting Officers.		By Deputy Sanitary Commissioner or Civil Surgeons.		By Native Superin- tendents or other Inspecting Officers.				
Primary.	Re-vaccina- tion.	Primary.	Re-vaccina- tion.	Primary.	Re-vaccina- tion.	Primary.	Re-vaccina- tion.	Primary.	Re-vaccina- tion.	
9	10	11	12	13	14	15	16	17	18	19
8.32	78.95	40.28	6.74	66.91	72.53	95.36	46.88	91.40	74.67	1
...	...	18	3.23	...	...	100.00	100.00	95.76	80.00	2
12.26	66.75	51.68	83.38	96.89	76.60	91.95	74.62	93.37	69.65	3
6.41	...	11.89	33.79	92.76	...	76.83	87.76	94.05	95.00	4
3.01	3.42	71.00	57.70	93.47	48.23	99.77	55.75	93.74	57.05	5
20.88	9.10	88.88	39.62	90.65	85.41	93.03	73.68	99.15	56.02	6
13.88	25.78	73.23	53.91	92.06	82.43	94.18	81.08	97.66	87.93	7
8.7	...	57.90	100.00	97.21	...	92.56	66.67	94.51	...	8
9.70	17.56	53.21	61.09	96.38	69.45	89.68	55.08	97.18	45.98	9
15.34	66.81	100.00	93.18	93.67	82.79	98.19	26.77	93.19	26.79	10
53.98	10.19	88.29	74.76	97.89	47.62	93.52	65.83	95.80	69.85	11
4.16	58.39	39.11	81.01	97.46	56.16	96.60	62.84	96.01	64.45	12
10.64	62.56	33.33	22.21	81.11	48.01	92.04	42.63	91.31	52.36	13
2.81	87.17	59.20	15.34	94.64	47.00	95.50	63.71	95.87	...	14
2.29	4.94	70.18	77.78	95.93	59.62	94.66	57.99	96.06	59.30	15
16.89	47.07	82.86	100.00	95.94	35.25	90.12	43.95	83.37	43.95	16
5.98	19.44	55.97	62.50	95.09	57.14	94.40	45.71	93.63	57.14	17
7.46	20.16	85.99	19.66	96.00	38.36	83.63	59.70	94.73	52.90	18
33.79	...	48.65	...	92.23	...	97.15	...	90.82	53.39	19
14.04	4.97	2.16	4.79	91.34	33.33	100.00	84.62	84.50	46.83	20
22.08	14.60	65.02	21.85	92.87	55.32	83.00	56.87	96.35	64.20	21
21.40	21.98	3.01	1.65	95.63	77.50	75.86	100.00	95.16	70.81	22
13.28	95.57	2.51	84.73	87.51	78.86	96.41	80.81	95.57	...	23
20	...	79.23	67.33	87.50	...	95.78	9.82	95.25	75.00	24
11.69	...	15.67	100.00	90.63	...	92.01	59.00	93.36	...	25
2.02	25.12	51.38	3.60	96.90	8.96	97.37	100.00	91.63	68.04	26
10.05	5.26	67.30	56.18	93.05	65.84	94.73	74.51	97.37	86.20	27
15.24	35.49	58.06	23.61	87.10	76.12	98.31	81.81	99.21	77.01	28
9.24	...	2.93	91.30	91.53	...	93.96	71.42	94.87	...	29
13.76	28.93	66.48	35.38	98.47	75.46	87	67.10	93.31	54.80	30
9.42	30.95	31.82	45.24	98.77	46.15	96.15	94.73	97.20	47.62	31
13.77	...	8.16	32.16	94.86	...	99.71	98.00	95.62	87.20	32
1.48	6.63	9.73	24.50	93.89	78.09	95.00	80.00	95.84	63.64	33
10.92	62.12	53.37	24.24	99.31	97.56	93.64	87.50	93.80	83.89	34
25.78	90.73	60.81	9.27	86.61	81.76	92.70	...	90.01	88.55	35
13.35	...	5.15	...	95.67	...	61.37	...	97.93	84.54	36
5.28	5.00	63.52	79.72	94.43	75.00	91.32	57.02	94.06	56.00	37
2.46	40.72	75.65	63.42	69.61	30.61	93.40	21.46	95.92	67.24	38
9.47	...	70.19	23.53	96.27	...	92.66	91.69	92.96	75.39	39
5.18	...	...	...	27.85	...	...	...	95.33	100.00	40
10.42	17.38	50.96	49.21	93.64	62.90	94.06	60.98	95.49	61.53	

APPENDIX A.

Statement showing the ratio per 10,000 successfully vaccinated and the mortality from small-pox by quinquennial periods for Lower Burma only.

Official year.	Ratio per 10,000 successfully vaccinated.	Quinquennial mean.	Calendar year.	Ratio per 10,000 of mortality from small-pox.	Quinquennial mean.
1	2	3	4	5	6
1894-95	353.83	519.56	1894	3.85	5.19
1895-96	443.91		1895	3.41	
1896-97	551.43		1896	3.70	
1897-98	586.66		1897	4.32	
1898-99	652.47		1898	10.70	
1899-1900	678.31	436.91	1899	13.21	5.57
1900-01	530.41		1900	6.76	
1901-02	352.69		1901	4.45	
1902-03	328.04		1902	2.82	
1903-04	353.66		1903	2.30	
1904-05	324.89	333.51	1904	2.38	6.16
1905-06	385.48		1905	10.10	
1906-07	359.61		1906	14.19	
1907-08	300.06		1907	2.75	
1908-09	297.50		1908	1.34	
1909-10	307.57	...	1909	1.50	

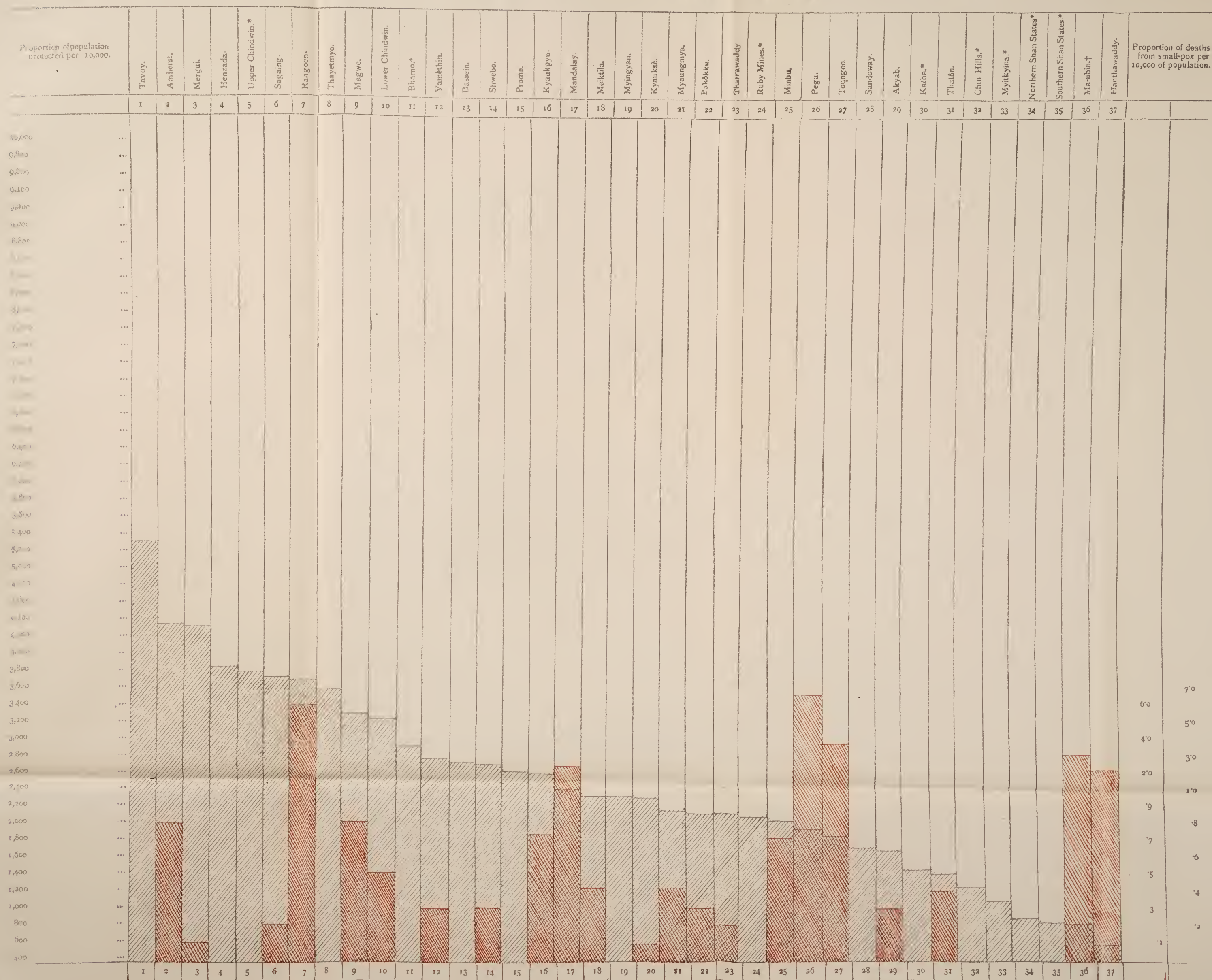
APPENDIX B.

Statement showing the number of vaccinations performed in municipal towns on children under one year of age (Paragraph 6).

Towns.	Number of births during the year 1909-10.	Number of deaths among children under one year during the year 1909-10.	Number of successful vaccinations on children under one year during the year ending 31st March 1910.	Date of extension of Vaccination Act into towns.
1	2	3	4	5
Akyab	394	237	311	August 1883.
Kyaukpau	49	16	24	April 1894.
Sandoway	69	15	68	September 1890.
Rangoon	5,056	1,518	3,537	April 1884.
Pegu	495	153	341	March 1893.
Nyaunglebin	143	75	56	29th March 1910.
Prome	789	331	527	June 1890.
Faungde	386	117	512	August 1890.
Gyobingauk	210	79	105	February 1897.
Letpadaun	248	99	103	January 1897.
Thonzé	216	74	75	October 1897.
Ma-ubin	177	41	137	October 1891.
Yandoon	381	86	254	January 1892.
Danubyu	215	48	181	9th July 1909.
Pyapou	23	45	153	November 1901.
Kyaiklat	240	392	173	15th December 1904.
Bassein	93	71	627	September 1888.
Ngathainggyaung	142	39	142	February 1890.
Myaungmya	103	30	76	June 1894.
Wakema	212	146	156	27th April 1907.
Henzada	690	67	430	January 1889.
Zalan	216	52	161	August 1894.
Myi naung	9,219	52	210	July 1889.
Kyangin	244	963	1,172	August 1894.
Moulmein	719	93	936	August 1885.
Thaton	456	87	439	October 1891.
Kyaikto	211	141	167	March 1897.
Tavoy	900	181	797	December 1889.
Mergui	476	12	434	October 1891.
Toungoo	5,444	2,297	278	May 1880.
Shwegyin	241	59	3,173	January 1890.
Mandalay	046	01	519	August 1891.
Sagaing	3.9	265	2.6	April 1894.
Monywa	238	60	295	March 1893.
Thayetmyo	372	15	232	May 1889.
Allanmyo	434	36	333	May 1901.
Yamethin	169	179	166	February 1892.
Pyinmana	375	140	322	November 1891.
Myingyan	495	290	440	September 1891.
Shwebo	277	32	129	June 1894.
Pakokku	703	49	551	April 1892.
Kyaukse	252	70	164	May 1894.
Minbu	251	50	161	March 1896.
Salin	231	170	221	March 1896.
Taungdwingyi	259	16	123	February 1893.
Meiktila	206	75	130	June 1906.
Bhamo	118	24	89	26th October 1894.
TOTAL	34,548	9,316	19,721	

APPENDIX C.

Diagram showing the proportion of Population protected during the seven official years from 1903-04 to 1909-10 and the death-rate from Small-pox during the calendar year 1909 in districts where Registration is in force.



Indicates proportion of population protected per 10,000.
 Indicates rates of deaths from small-pox per 10,000 of population.

* Registration of vital statistics is not carried out in these districts.

† Statistics of Pyap8n have been included in Maubin.

NOTES AND STATISTICS
ON
VACCINATION IN BURMA

FOR THE YEAR 1909-10



RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1910